

December Open-Ended Questions

Name _____

Math for Standards

SHOW AND EXPLAIN ALL WORK!!! Date _____

1. The thousands digit of a number is three times the hundreds digit. The sum of the tens digit and one digit is one less than the thousands digit. The hundreds digit is two less than the tens digit. What 4-digit number is it? Make sure to explain how you solved the problem, including justification for your work. (Hint: There is more than one possible answer. You need to find one. Bonus points for finding any others.)

2. Fuzzy Jeff lined cans in two rows on a shelf and had one left over; he tried again using three rows, and then four rows. Each time he had one left over. Finally, he tried five rows and had none left over. What possible numbers of cans could he have been working with? Make sure to explain how you solved the problem, including justification for your work.